



conditional guaranteed budget &lt;near&gt;resource

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S Verma, RK Pankaj, A Leon-Garcia - Computer Communications, 1998 - Elsevier

... the last term can be determined by the scheduling algorithm parameters in advance, the delay budget to be ... Here we show that the Lagrange multiplier  $n_0$ ,  $VyG$ , ie the KuhnTucker optimality condition is always ... [8] P. Goyal, HM Vin, Generalized guaranteed rate scheduling ...

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R Bril, E Steffens - Quality of Service—IWQoS 2001, 2001 - Springer

... To gain back on the cost-effectiveness loss and to compensate  $\neg UF$  for its **budget** loss,  $\neg UF$  receives an additional **budget** with a **conditional guarantee**. This so-called conditionally guaranteed budget (CGB) is available to  $\neg UF$  when UF does not use its **budget** margin. ...

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L Abeni, G Buttazzo - Real-Time Systems, 2004 - Springer

... In this way, the server remains eligible and the **budget** can be exploited by the pending requests with ... of a task served by a CBS, it is possible to perform a QoS **guarantee** based on ... Such a difference in the frame rate indicates the presence of an overload **condition**; indeed, some ...

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T Cucinotta, SS Sant'Anna - Proc. 14th IEEE Real-Time and Embedded ..., 2008 - Citeseer  
... utilisa- tion  $U \leq \min_k k$ , that limits the total sum of the mini- mum **guaranteed** utilisations granted ... allowed to occupy in total:  $\sum_i Sk Q(i) P(i) \leq U \leq \min_k k$ ; this **condition** must be enforced by the supervision policy (Requirement 5a) while computing the granted **budget** values ( $Q$  ...

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M Caccamo, GC Buttazzo, DC Thomas - IEEE Transactions on ..., 2005 - computer.org  
... of soft tasks by handling execution overruns, a good trade off consists of assigning server **budget** and period ... runtime exchange performed by BASH, however, does not affect schedulability; thus, the task set can be **guaranteed** using the classical Liu and Layland **condition**: ...

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M Caccamo, L Sha - riss, 2001 - computer.org

... jeopardizing the hard tasks' **guarantee**. ... In this section we first define the rules governing the CBs server with **resource** constraints, CBs-R, that have been informally ... Under the CBs-R, each job  $J_i$  starts executing with the server current **budget**  $cs$  and the server current deadline  $ds$  ...

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A Povzner, T Kaldewey, S Brandt, R Golding ... - ACM SIGOPS ..., 2008 - portal.acm.org  
 ... scheduler cannot issue request  $R_{l,m,n}$  unless job  $J_{l,m}$  has enough **budget** remaining for ... Theorem 2 says that in order to **guarantee** the reserved utilization to a request stream regardless ... 4. BASIC FAHRRAD SCHEDULER To meet the **condition** of Theorems 1 and 2, the broker ...

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L Abeni, G Lipari - Real-Time Linux Workshop, 2002 - linuxdevices.com

... fact, a periodic task  $1$  with worst case execution time  $C_1$  and period  $T_1$  is **guaranteed** to respect ... If this **condition** is not verified, the **condition** for ensuring the schedulability of its way more ... ection (because a job finished and the next one is not arrived yet) when the **budget** of its ...

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JK MacKie-Mason - Ann Arbor - papers.ssrn.com

... I am silent on how long in advance one must reserve **resources**, and on how long the ... Indeed, due to Kircho's physical laws it is generally impossible to know or **guarantee** the speci ...  $w_{ij} = 0$  when there are no capacity constraints, I have obtained the excess cost **condition** in (7b) ...

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N Peng, C Liu, T Kuo - Journal of information science and engineering, 2006 - Citeseer  
 ... RTAI scheduler ( $rt\_schedule()$ ) and timer interrupt handler ( $rt\_timer\_han\_dler()$ ) must be revised to **guarantee** hard **budget** ... in lines 6 to 15 posts of SIGBUDGET signals, because the **budget** is exhausted. The IF **condition** in line 4 verifies the need for soft **budget-based resource** ...

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### Solving the near-far problem in CDMA-based ad hoc networks\* <sup>1</sup>

A Mugahtash, M Krunz, WE Ryan · Ad Hoc Networks, 2003 · Elsevier

... So the solution to the **near-far** problem has to have both elements: power control and medium ...

This is important because it is usually difficult to **guarantee** correct code assignment at all times ...

Energy is a **scarce resource** in MANETs, so it is undesirable to trade off energy for ...

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E Carara, N Calazans, F Moraes · infi.pucrs.br

... is only allowed to start if the system can allocate upon request the **resource budget** it requires ...

The priorities mechanism provides a soft **guaranteed** service (latency and bandwidth) to high

priority ... In this **condition**, F1 and F2 throughput decays from 29.91% and 28.83% to 21.95 ...

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PZHHH Wang, H Chen · IEEE transactions on wireless ... , 2006 · ieeexplore.ieee.org

... also alleviate the constraints on power consumption of user terminals when concerning their

link **budget** ... Similarly, after removing the **condition** on R, then we can get the average access

delay ... the channel, and then add some additional guard samples on q to **guarantee** a good ...

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### Multiple multicast groups for multimedia on the Internet

Q Parr, K Curran · Information and Software Technology, 1999 · Elsevier

... The round-trip latency **budget** is consumed by the sending computer, the network, and the

receiving ... it requires that client and server are always available and functioning, a **condition** that

is ... The CORBA model is lacking for the class of systems requiring real-time **guarantee** [10]. ...

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### Statistical delay budget partitioning in wireless mesh networks

NA Abu-Ali, HS Hassanein · Computer Communications, 2003 · Elsevier

... The algorithms proposed, nevertheless, are either **near-optimal** or heuristics, and provide solutions

for ... to make end-to-end flow based assignments and to **guarantee** allocated service ... first category,

ie, the heuristic algorithms, solve the partition delay **budget** problem heuristically ...

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K Kawachiya, H Tokuda - Proceedings of the 1996 IEEE International ..., 1996 - Citeseer

The most notable characteristic of continuous-media data is the existence of timing constraints. To handle such data appropriately, some system support for resource management and **QOS control** is indispensable. For this reason, we are proposing a '**QOS-Ticket**' ...

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... JAIST (1994). [23] K. Kawachiya and H. Tokuda: 'Dynamic QOS Control of Continuous-Media Processing based on the 'QOS-Ticket' Model,' (in Japanese), Proc. 7th IPSJ Computer System Symposium, pp. 141[148 (1995) [24 ...

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Evaluation of QOS-Control servers on real-time mach

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K Kawachiya, M Ogata, N Nishio, H Tokuda - Network and Operating ..., 1995 - Springer

... Based on these experiments, we are now designing a 'QOS-Ticket' model as a new QOS-control scheme. References ... 122-131 (1994). 4. H. Tokuda and T. Kitayama: "Dynamic QOS Control based on Real-Time Threads," Proc. 4th NOSSDAV, pp. 113-122 (1993). ...

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[PDF] [Q-Thread: A New Execution Model for Dynamic QOS Control of Continuous-Media Processing](#)

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... Dynamically changed within the range period (can be re-specified) based on the ... Arguments passed User-specified Same, plus a QOS-control hint ... available computation time Purpose (Soft/hard) Continuous-media processing real-time processing (with dynamic QOS control) ...

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K Kawachiya, H Tokuda - Proceedings Real-Time Mach ..., 1997 - mkg.stc.keio.ac.jp

... Continuous-Media Processing." Proc. NOSSDAV '96, pp. 149[156 (1996). [3] K. Kawachiya and H. Tokuda: 'Dynamic QOS Control Based on the QOS-Ticket Model,' Proc. IEEE ICMS '96, pp. 78[85 (1996). [4] MR Garey and ...

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### [QOS Control of Continuous Media: Architecture and System Support."](#)

K Kawachiya, M Ogata, N Nishio, H Tokuda - IBM Research Report, ..., 1995 - Citeseer

... In this **model**, **QOS control** is achieved through cooperation of the operating system, the **QOS Manager**, and each ... The **QOS-Ticket**, which represents the resource reservation for each session, mediates these activities. ... 41, **Dynamic QoS control based** on real-time threads. ...

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### [Qos support in tdma-based mobile ad hoc networks](#)

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I Jawhar, J Wu - Journal of Computer Science and Technology, 2005 - Springer

... gorithms belong to one of three categories: 1) Reac- tive (on-demand) such as DSR (**Dynamic Source Rout** ... In this section, a **DSR-based on-demand QoS** routing protocol designed by Jawhar and Wu[32] is ... The TDMA frame is composed of a **control** phase and a data phase[12]. ...

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L Chen, S Khan, K Li, E Manning - Parallel and Distributed Processing, 1999 - Springer

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S Oh, D Kado, K Fujikawa, T Matsuura, S ... - ... and Control of Network ..., 1997 - Citeseer

... is, network Quality of Service (**QoS**), it also makes a large virtual space **model** intractable and ... IoT) as a de nition of an application level **QoS** which is **based** on the ... In related studies on **QoS adaptation** for video ob jects, 5,6 proposed **dynamic QoS control models** for continuous ...

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... International Standard ISO 9074. Kawachiya, K. and Tokuda, H. (1996). **Dynamic QOS Control**

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